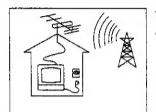


Colour Television TX-21ST15M TC-21S15M

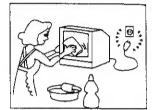
Dear Panasonic customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television.

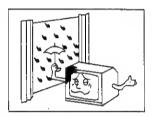
Safety Instructions



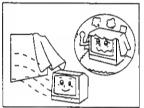
The TV set can be operated on AC SINGLE 230V, 50Hz



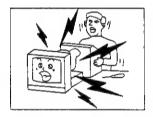
The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.



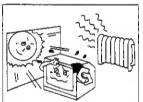
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.



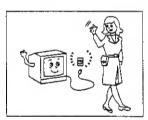
Adequate ventilation is essential to prevent failure of electrical components.



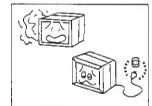
Do not remove the rear cover, as live parts are accessible when it is removed.



Avoid exposing the TV set to direct sunlight and other source of heat.



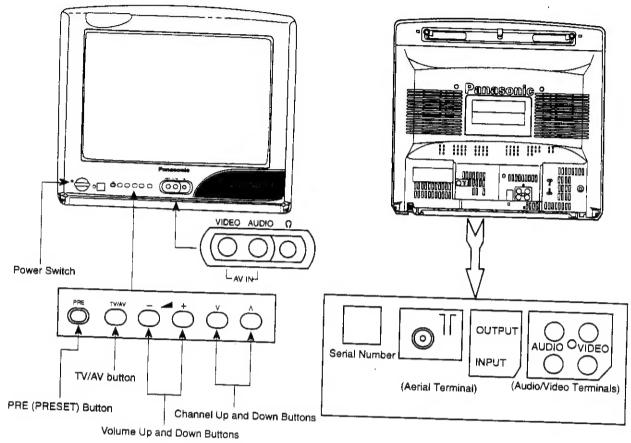
Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.



Do not use this set if abnormal operation occurs.

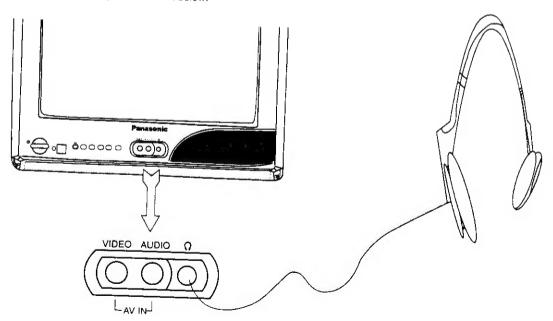
EX: smoke, odd sounds or smells, turn the power switch off and disconnect the AC power if you notice any unusual operation.

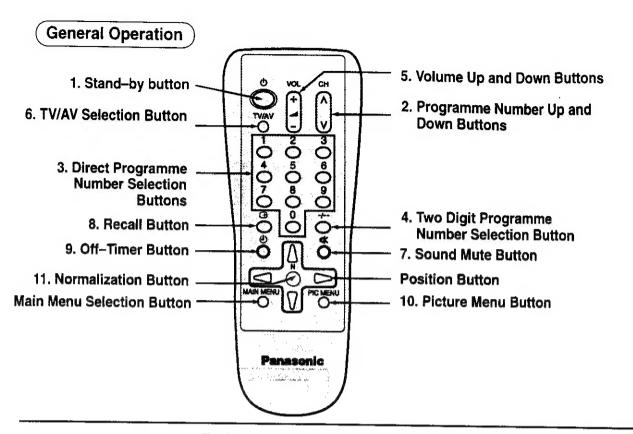
Location of Control (TV)



Location of Control (TV)

Plug the earphone jack as shown below:





1.



To Switch Power on/off

The TV set must be switched on at the wall outlet and at the Main power switch.

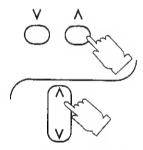
Press this button to turn the TV set ON, from stand-by mode.

Press it again to turn off.

Note:

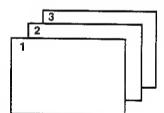
When in the stand – by condition, it is possible to turn the TV set on by pushing the Direct Programme Number Selection button (0-9) or the Programme Number Up and Down button.

2.



Programme Number Selection

Press the programme number Up "A" or down "v" Button to select the next higher or lower programme number.



3.



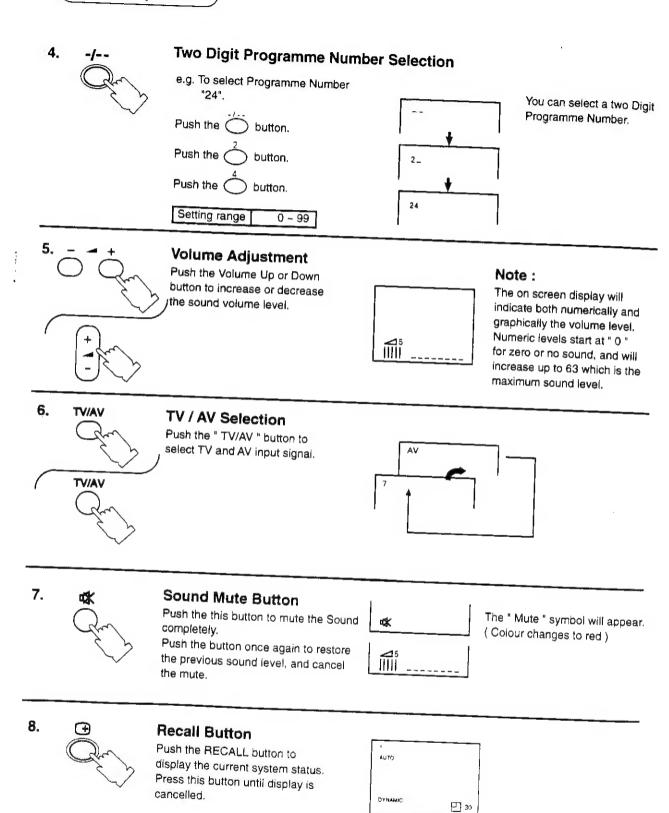
Direct Programme Number Selection

(0 - 9)

e. g. To select programme number "1", press the "1" button.

1	

General Operation



General Operation

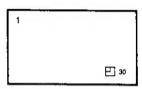
9. Off Timer Button



The TV set may be preset to switch to stand-by after a fixed period.

By pressing "Off-Timer" button, you can select the preset time either 30, 60, or 90 minutes.

	30→ 🖽 60 → 🖽	90
L		



1	
	巴洙

When the off-timer reaches its last 3 minutes, it starts blinking before going to stand-by condition.

Note:

Setting Off-timer to AUTO mode.

If the set is not switched off, when the TV station ends broadcasting, it will automatically go to the stand-by condition after 5 minutes. This AUTO mode will not operate when the TV receiver is in AV mode.

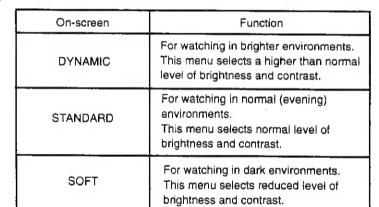
How to cancel the OFF-timer setting:

- 1. Set the preset time condition to "0" mode by pressing the Off timer button.
- 2. Turning the TV set off.

10. Picture Menu

PIC MENU





11. Normal (N) Button



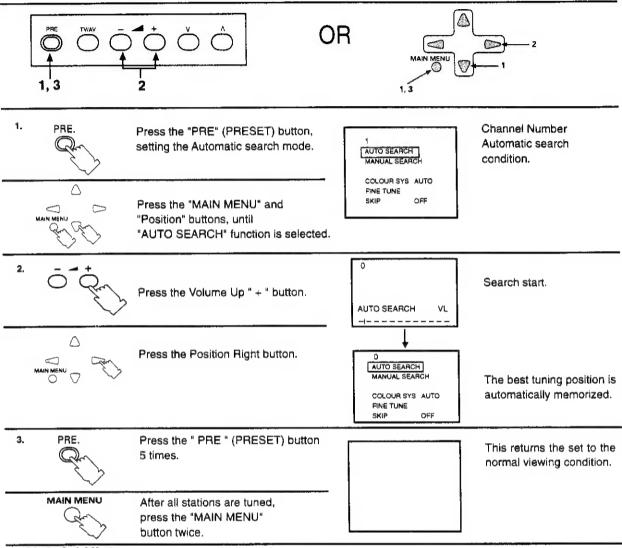
This button can be used for setting the Colour, Brightness, Contrast, Sharpness, Tone and Colour Temp. When this button is pressed, all functions setting are reset to the factory preset level.

Flow Chart of Main Menu

When the "MAIN MENU" button is pushed at the main menu screen, the screen display will return to the normal viewing condition. When the "MAIN MENU" button is pushed at each MENU screen (Picture, Sound, Features, Language, Preset), the screen display will return to the Main Menu screen.

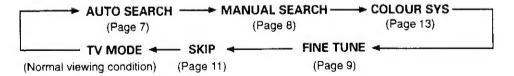
Push	MAIN MENU				
Select	00			· · · · · · · · · · · · · · · · · · ·	
Symbol Mark			€.	lo	9
On-Screen Indication	[PICTURE]	SOUND	[FEATURES]	LANGUAGE ENGUSH 中文 中文 PYCCKWA	[PRESET]
Push	∇	∇	∇		∇
On-Screen Indication (example)	DYNAMIC 32 SAARPNESS STD COLOUR TEMP DYNAMIC DYNAMIC	S B3 TONE	CHILD LOCK OFF BLUE BACK ON CHILD LOCK OFF BLUE BACK ON CHICOLOUR SET STD CHILD LOCK OFF	ENGLISH 中文 PYCCKINA P文CKINA P文CKINA P文CKINA P文CKINA P文CKINA PYCKINA ENGLISH 中文 PYCCKINA PYCKINA	BB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP BB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF BB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF BB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF BB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF COLOUR SYS AUTO FINE TUNE SKIP OFF SB AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF

Automatic Search

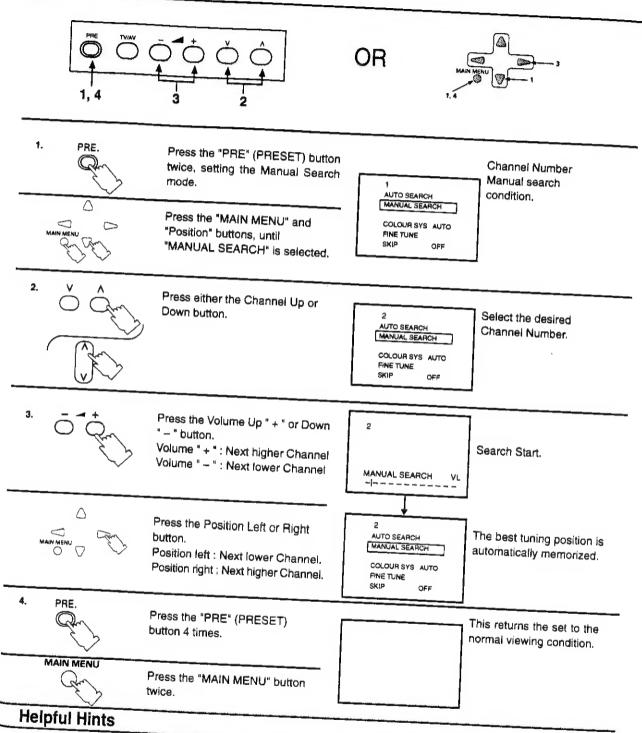


Helpful Hints

- 1. If a clear picture with correct colours cannot be obtained when a broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 13.
- 2. After the Automatic Search operation is finished, press the Channel Number "Up" button to confirm the tuning condition for each Channel Number. If some Channel Numbers are unused, it is possible to skip such Channel Numbers. Please refer to the Channel Number Skip operation on page 11.
- 3. Repeated pressing of the "PRE." (PRESET) button changes the Preset Menu as follows:

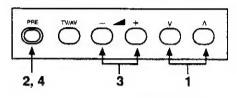


Manual Search

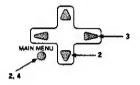


- 1. If a clear picture with correct colours cannot be obtained when a broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 13.
- 2. After the Manual Search operation is finished, press the Channel Number "Up" button to confirm the tuning condition for each Channel Number. If some Channel Numbers are unused, it is possible to skip such Channel Numbers. Please refer to the Channel Number Skip operation on page 11.

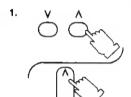
Fine Tune



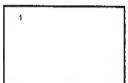
OR



Under normal reception condition, this function is not used. However, in areas of poor reception or constant interference, a slight adjustment on the fine tuning can improve the picture and sound quality.



Select the channel which you want to try to improve, using the Channel Up or Down buttons.



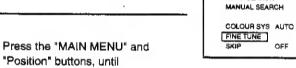
AUTO SEARCH

Select the desired Channel Number.

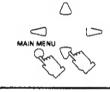
2.



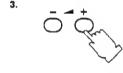
Press the * PRE.* (PRESET) buttons 4 times, setting the Preset menu to "Fine Tune".



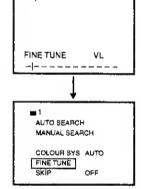
Fine Tune condition.



"Position" buttons, until "FINE TUNE" is selected.



Press the Volume Up " + " or Down " - " button until the picture is received.



Fine Tune Start.

Press the Position Left or Right button until the picture is received.

The AFC (Automatic Frequency Control) function is deactivated.

The " = " symbol appears to the left of the Channel Number.

4.



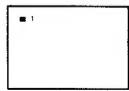
Press the "PRE" (PRESET) button 2 times.

This returns the set to the normal viewing condition.

MAIN MENU



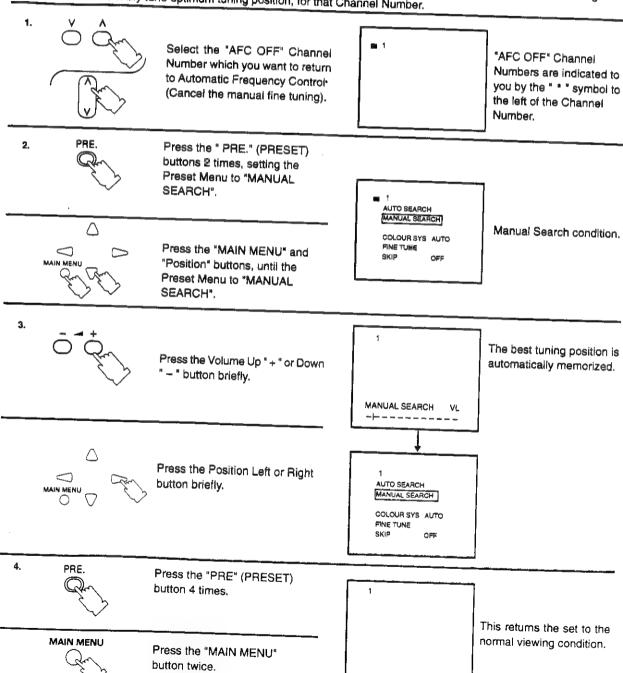
After all stations are tuned, press the "MAIN MENU" button twice.



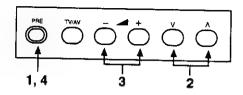
How to cancel the Fine Tuning



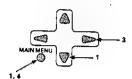
Cancelling previously adjusted (manually) fine tuning, means re – activating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Fine Tuning). Re – activating the Automatic Fine Tuning means albaming the set to automatically tune optimum tuning position, for that Channel Number.



Programme Number Skip



OR



Channel Skip condition.

1.



Press the " PRE." (PRESET) buttons 5 times, setting the Preset Menu to "SKIP".

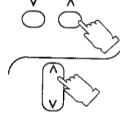
AUTO SEARCH MANUAL SEARCH



MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until "SKIP" is selected.

2.



Select a Programme Number you want to skip, by pushing the Channel number Up or Down buttons.

2 AUTO SEARCH MANUAL SEARCH

COLOUR SYS AUTO FINE TUNE SKIP OFF

3



Press the Volume Up " + " or Down " - " button.

2 AUTO SEARCH MANUAL SEARCH

COLOUR SYS AUTO FINE TUNE

_ _



B

Press the Position Left or Right button.

4.



Press the "PRE" button once.

This returns the set to the normal viewing condition.

The displayed "OFF"

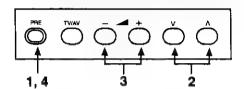
condition changes to "ON".

MAIN MENU

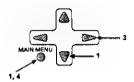


Press the "MAIN MENU" button twice.

How to Cancel the Skip Function.



OR



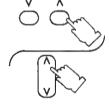
Channel Skip condition.



Press the " PRE." (PRESET) buttons 5 times, setting the Preset Menu to "SKIP".

AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO

Press the "MAIN MENU" and "Position" buttons, until the Preset Menu to "SKIP".



Select the skipped Programme Number, by pressing the Channel Number Up or Down buttons.

AUTO SEARCH MANUAL SEARCH

COLOUR SYS AUTO FINE TUNE



Press the Volume Up " + " or Down – " button.

The displayed "ON" condition changes to "OFF".



Press the Position Left or Right button.

Repeat step 2 and 3, if you wish to cancel the Skip function on any other programme number.

AUTO SEARCH MANUAL SEARCH

COLOUR SYS AUTO ŞKIP



After the Skip Cancel operation is completed, press the " PRE " button once.

This returns the set to the normal viewing condition.

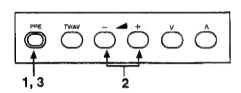
MAIN MENU



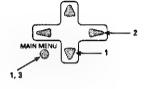
After the Skip Cancel Operation is completed, press the "MAIN MENU" button twice.

Colour System Selection

Use this function if a clear picture with weak colour is obtained when a Broadcast or AV signal is received.



OR



Colour System condition.

i. Pre.

Press the " PRE." (PRESET) button, until "COLOUR SYS" is selected.

1 AUTO SEARCH MANUAL SEARCH

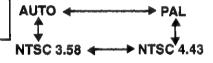
FINE TUNE
SKIP OFF

MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until "COLOUR SYS" is selected.

Press the Volume Up
" + " or Down button,
" - " repeatedly until the optimum image is produced.

O AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO The Colour system will change as shown:



MAIN MENU



Press the Position Left or Right button repeatedly until the optimum image is obtained.

3

PRE.

Press the "PRE" (PRESET) button 3 times.



This returns the set to the normal viewing condition.

This selected Colour System is automatically memorized.

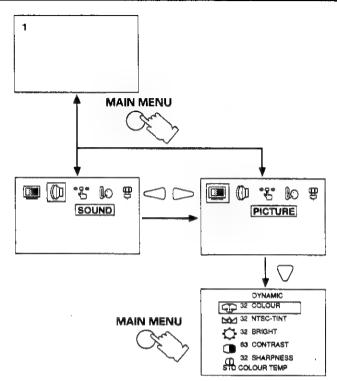
MAIN MENU

Press the "MAIN MENU" button twice.

Advanced Remote Control Operation

Picture Menu Operation

<u>Method</u>



Picture Menu

Push	ltem	Effect	Indicator
∇ △ Select	COLOUR	C A More	© 32 COLOUR
∇ △ Select	NTSC-TINT	Greenish Reddish	32 NTSC-TINT
▽ △ Select	BRIGHT	Darker Brighter	☼ 32 BAIGHT
♡ △ Select	CONTRAST	C C Less More	☐ 63 CONTRAST
▽ △ Select	SHARPNESS	C C Less More	D 32 SHARPNESS
∇ △ Select	COLOUR TEMP	STD ←→WARM	COLOUR TEMP

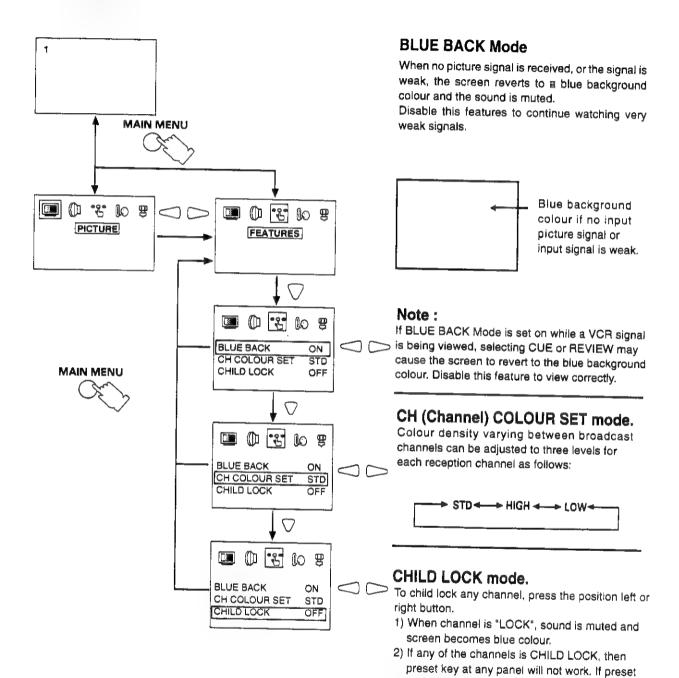
Helpful Hint

^{1.} By pushing the Normal "N" button on the Remote control while the Picture menu is displayed, the setting of the selected function will be return to factory setting level.

Advanced Remote Control Operation

FEATURES Menu Operation

Method



locked channel.4) Each channel has its own memory for channels to be child locked.

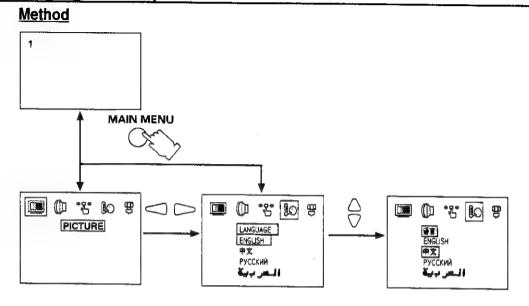
ON " will appear.

key (Panel) is pressed, message " CHILD LOCK

 Main power ON in child locked channel will display "CHILD LOCK ON" on screen to remind user that the Child lock is On and is in Child

Advanced Remote Control Operation

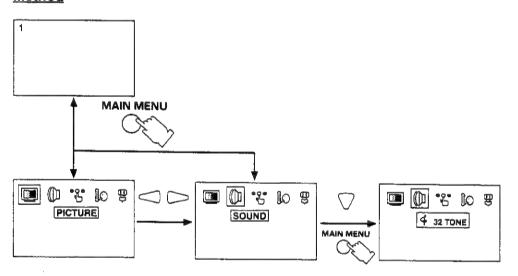
Language Menu Operation



Press the "Position Up or Down" button to select desire language.

Sound Menu Operation

Method



Sound Menu

Push	ltem	Effect	Indicator
∇ Δ Select	TONE	C C Less More	€ 22 TONE

Advanced Remote Control Operation (For Teletext model only)

Fastext

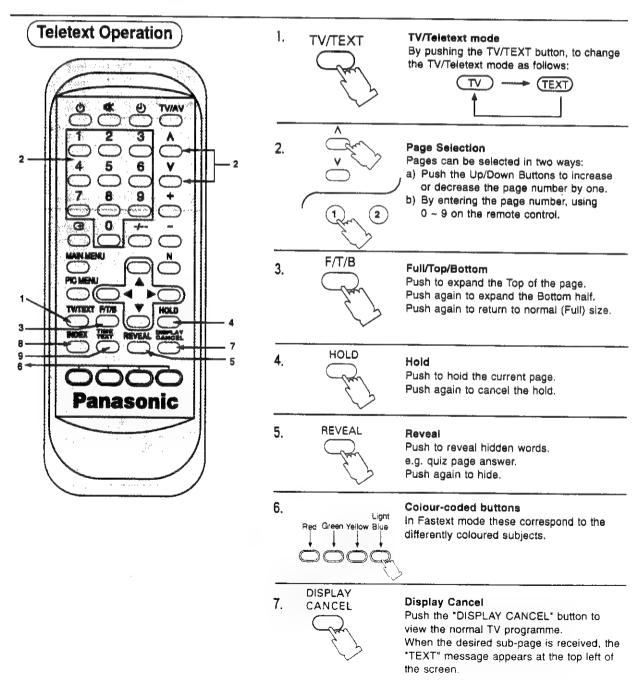
- Teletext features may vary depending on the Broadcasting companies and is only available if the channel selected is transmitting teletext.
- When in the teletext mode, the volume may still be altered to the desired listening level.

What is Fastext

In FASTEXT mode, four different coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, push the appropriately coloured button. This facility enables fast access to information of the subjects shown.

What are the advantages

- Page selection at the touch of a Coloured-coded button.
- Easy to use step by step selected of the topical subject.
- Reduction of waiting time.
- Page status line at the bottom of screen so you always know which button will take you to the desired information.



Teletext Operation

8. INDEX

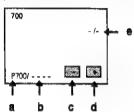
Index

Push INDEX to return to the main index page.

9. TIME TEXT

TIME TEXT

The Required Teletext page must be selected. When the "TIME TEXT" button is pressed, the on-screen will be changed as follows:



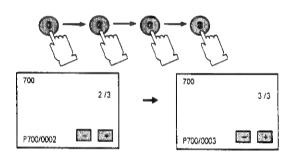
- a Selected Page Number
- b Selected Sub page Number
- c Sub page Number Down
- d Sub page Number Up
- e Sub page Number

If the selected page number contain sub-page number, the required sub - page number can be select by:

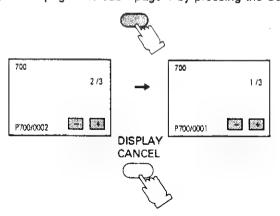
- 1. Press the Sub page Number Up (green colour button)
- 2. Press the Sub page Number Down (red colour button)
- 3. Press the Direct Programme Number Buttons, or
- 4. Programme Number Up or Down Buttons

The Sub - page 2 to sub - page 3 by pressing the Direct Programme Number buttons.

e.g. To change sub - page 2 to sub - page 3 by pressing the Direct Programme Number buttons.



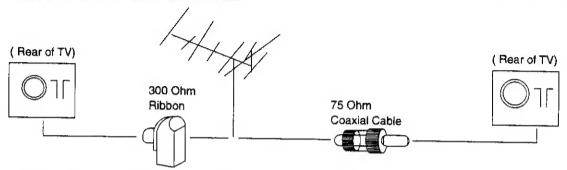
e.g. To change sub - page 2 to sub - page 1 by pressing the Sub - page Number Down Button (Red button).



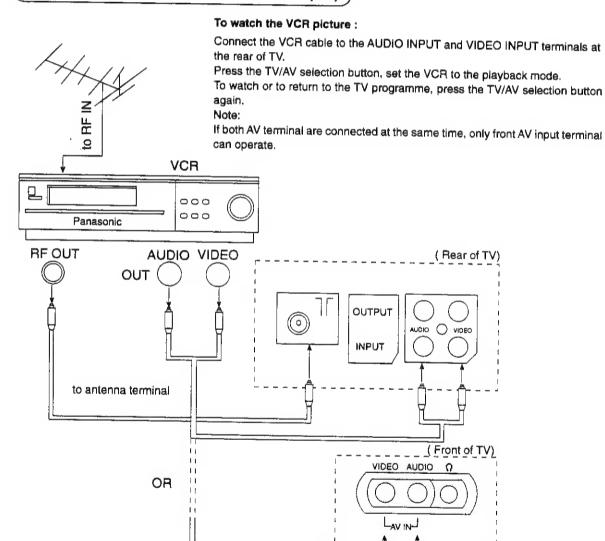
Press DISPLAY CANCEL to view a normal TV programme.

Antenna Connection

To obtain the best quality picture and sound, plug the connectors (300 Ohm Ribbon or 75 Ohm Coaxial Cable) to the antenna terminal on the rear of TV set.

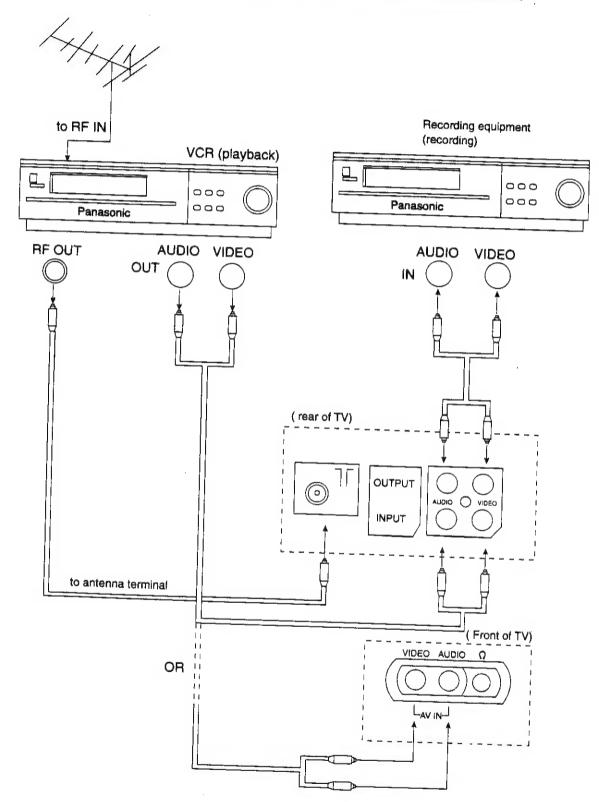


Connections (Audio Input and Video Input)



Recording

Follow the connection shown below when you want to copy a programme from another tape (VCR).



Troubleshooting

Before calling for service, determine the symptoms and make a few simple checks as shown below.

Symptoms			
Picture	Sound	Checks	
Snowy Picture	Noisy Sound	Aerial Location, direction Connection	
Multiple Image	Normal Sound	Aerial Location, direction Connection	
Interference	Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent Lamps	
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)	
? No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness / Volume Setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.)	
No Colour	Normal Sound	Colour Control	
Scrambled	Weak Sound	Re-tune Channels	
Colour Patches	Normal Sound	Magnetic interference from unshielded equipment. Receiver moved while "ON"	
No Colour Rolling Picture H-Line	Noisy Sound	System Button	

Specifications

Power Source : AC SINGLE 230V, 50Hz

Power Consumption: 92 W

Tuning System: Voltage synthesizer

Auto search tuning 100 position

Picture Tube: 51 cm, measured diagonally, 90' deflection

Audio Output: 3 W

Remote Control Transmitter: EUR 501380 (TC-21S15M)

EUR 644666 (TX-21ST15M)

Battery: R6 (AA) x 2

Dimension (W \times D \times H) : 518 \times 477.7 \times 477 mm

Weight (Net): 20.4 Kg

Receiving Systems: 4 SYSTEMS

	SYSTEMS	FUNCTION	
1.	PAL B,G	Reception of broadcast transmissions and playback from video cassette tape recorders.	
2. 3.	NTSC 4.43 NTSC 3.58	Playback from special VCR only.	
4.	PAL 60Hz	Playback from special Disc player and VCR only.	

Receiving Channels:

VHF BAND	UHF BAND	CATV
2-12 PALB 0-12 PALB (AUS)	21 - 69 PAL G 28 - 69 PAL B (AUS)	S1 - S41 (HYPER)

Note:

Design and Specifications are subject to change without notice.